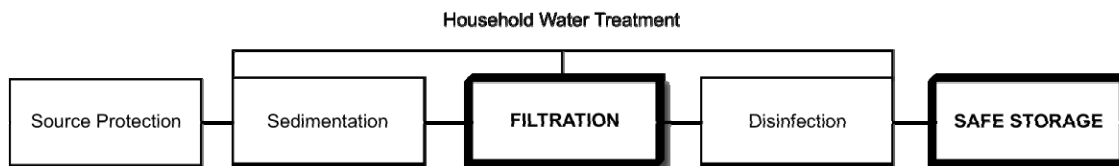


# Household Water Treatment and Safe Storage

## Fact Sheet: Ceramic Candle Filter

### Treatment Type



### Effectiveness

Very Effective For:	Somewhat Effective For:	Not Effective For:
<ul style="list-style-type: none"> <li>• Bacteria</li> <li>• Protozoa</li> <li>• Helminths</li> <li>• Turbidity</li> <li>• Taste, smell, colour</li> </ul>	<ul style="list-style-type: none"> <li>• Viruses</li> </ul>	<ul style="list-style-type: none"> <li>• Chemicals</li> </ul>

### How Does it Work?

Ceramic candle filters are hollow cylinders that are usually made from clay mixed with a combustible material like sawdust, rice husks or coffee husks. Colloidal silver is sometimes used to help with pathogen removal. One or more candles are attached into the bottom of a container. Water is poured into the container and flows through the candle, and is collected in another container that has a tap at the bottom. This system also provides safe storage until it the water is used.

### Effectiveness

- Quality: Can be very effective in removing turbidity and pathogens; quality varies depending on the manufacturer; provides safe storage to prevent recontamination
- Quantity: Can filter up to 10 litres of water
- Local water: Can be used with any water source, may need to sediment water before using the filter

### Appropriateness

- Local availability: Can be manufactured and purchased locally
- Time: Flow rate is 0.1-1 litre/hour
- Operation and maintenance: Simple maintenance to clean the candle when the flow rate slows down
- Lifespan: Up to 3 years; usually 6 months to 1 year; candle needs to be replaced if there are visible cracks or leaks

### Acceptability

- Taste, smell, colour: Filtered water has improved taste, smell and colour
- Ease of use: Easy

### Cost

- Initial purchase cost: US\$15-30
- Operating cost: None

